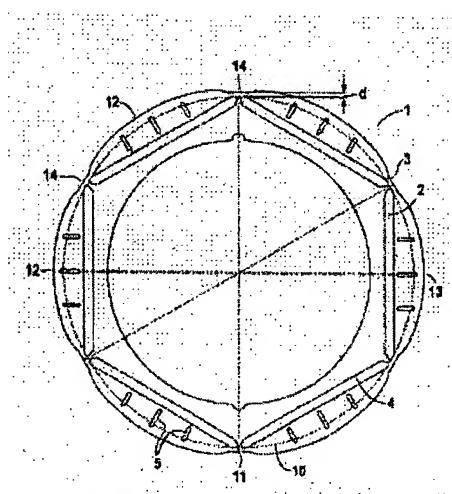


Permanent magnet polyphase-machine especially synchronous machine

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Applicant: SIEMENS AG (DE)
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A permanent-magnet polyphase machine includes a laminated rotor core (1) in which are embedded permanent magnets (2). At least one magnetic flux blocking device (5) is provided between a recess (4) for receiving a permanent magnet (2), consisting of a magnetic plate, and the airgap of the polyphase (synchronous) machine. A sinusoidal exciter field can be generated in the airgap, and the magnetic flux blocking devices (5) are specifically material cut-outs or slots having a preferred direction of orientation mainly parallel to the magnetic field lines set up during operation of the electrical machine.



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